

Title (en)
COUNTERROTATING AXIAL BLOWER

Title (de)
GEGENLÄUFIGES AXIALGEBLÄSE

Title (fr)
SOUFFLANTE AXIALE CONTRAROTATIVE

Publication
EP 1653087 A4 20110713 (EN)

Application
EP 03720969 A 20030428

Priority
• JP 0305468 W 20030428
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• JP 2003068859 A 20030313

Abstract (en)
[origin: US2005106026A1] An axial-flow fan with double impellers is provided that can produce a larger amount of air and a higher static pressure than can be achieved with conventional fans. The axial-flow fan with double impellers has a first axial-flow fan unit and a second axial-flow fan unit. The first axial-flow fan unit includes a first case, a first impeller and a plurality of webs that fix a first motor to the first case. The second axial-flow fan unit includes a second case, a second impeller and a plurality of webs that fix a second motor to the second case. The first case and the second case are coupled together to form a housing. The webs of the first axial-flow fan unit and the webs of the second axial-flow fan unit are combined together to form a plurality of stationary webs arranged in the housing. The number of front blades provided at the first impeller is set to five, the number of stationary blades is set to three, and the number of rear blades provided at the second impeller is set to four.

IPC 8 full level
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CPC (source: EP US)
F04D 19/007 (2013.01 - EP US); **F04D 19/024** (2013.01 - EP US); **F04D 29/545** (2013.01 - EP US); **F04D 29/646** (2013.01 - EP US)

Citation (search report)
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• [A] US 2003026691 A1 20030206 - HUANG WEN-SHI [TW], et al
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CN108302053A; CN106968973A; DE102007022663B4; US11655824B2

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US 2005106026 A1 20050519; US 7156611 B2 20070102; EP 1653087 A1 20060503; EP 1653087 A4 20110713; EP 1653087 B1 20160615; EP 2458223 A2 20120530; EP 2458223 A3 20180328; EP 2458223 B1 20200101; HK 1088648 A1 20061110; TW 200417693 A 20040916; TW I264502 B 20061021; WO 2004081387 A1 20040923

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US 50060304 A 20040630; EP 03720969 A 20030428; EP 12156065 A 20030428; HK 06110625 A 20060922; JP 0305468 W 20030428; TW 92113378 A 20030516